JPL Informatics

EDRN Quarterly Report

March – May 2011
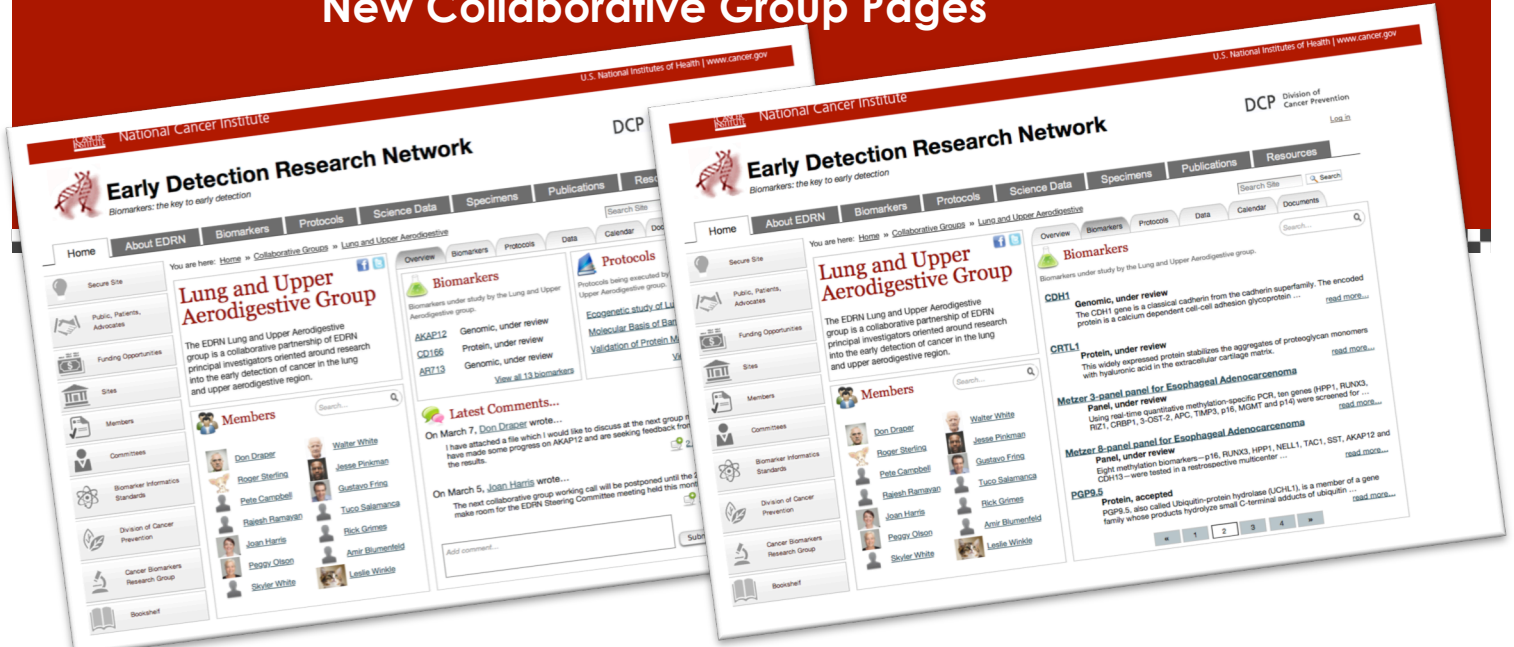
Links of Interest

http://cancer.jpl.nasa.gov (informatics center)
http://edrn.nci.nih.gov/ (ops)
http://nci-test-ws04-2-v.nci.nih.gov/(test)
http://edrn.jpl.nasa.gov/ (beta)

EDRN Portal Updates

- EDRN Portal 3.6 Released at NCI

  - Specimen search now integrated into Portal

  - Biomarker basic information available to the public

  - Find a member's contact information more easily through the new directory

  -

New Collaborative Group Pages

Coming Soon to the beta JPL site:

- New Collaborative Group Pages

- Integration of Reference and PRoBE sets into Specimen Search

- Addition of NYU Specimens

- Publications Tab updated to allow for sorting by date, selecting date, ranges, filtering by PI

Biomarker Data Curation

Annotated, Reviewed and Publicly Available on EDRN Portal:

Meltzer Markers:
- CDH13
- NELL1
- TAC1
- p16
- RUNX3
- HPP1
- SST
- AKAP12
- Meltzer 8-marker panel
- Meltzer 3-marker panel
- Meltzer 3-marker panel with clinical features
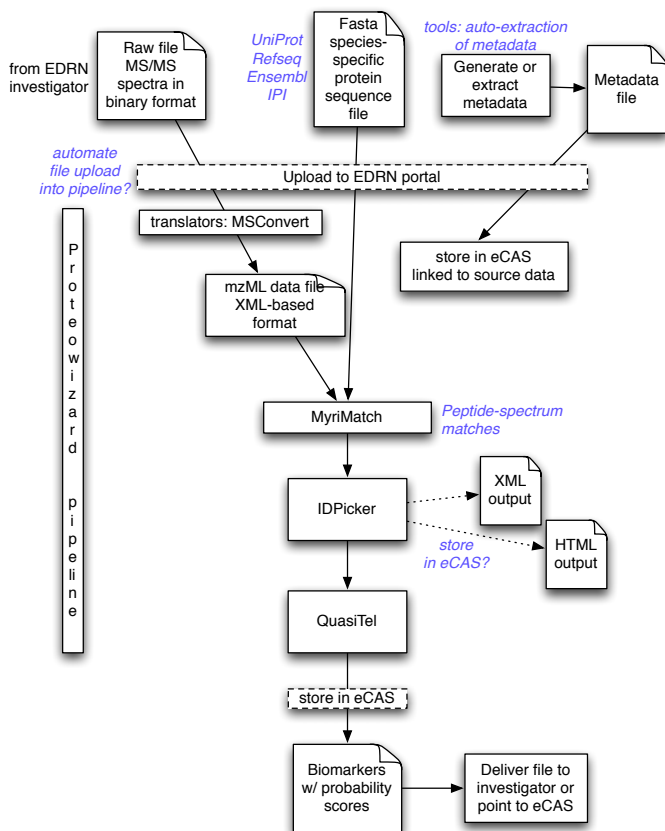
PLCO/SPORE/EDRN Markers (PI: Cramer):
- CA125
- CA72-4
- CA19-9
- CA15-3
- B7-H4
- HE4
- KLK-6
- Cramer 5-marker panel

197 Biomarkers are now curated!

These biomarkers have general overview information that is available to the public via the EDRN Public Portal.

Informatics Pilot Projects – Collaborations with other EDRN Sites

Proteomics Pipeline Project with Vanderbuilt – David Tabb

- Working to build an EDRN Proteomics data pipeline
- Pilot will include:
  o Ability to upload raw data files into portal
  o Extract/generate metadata
  o Run through ProteoWizard to generate possible biomarker matches
  o All data steps will be stored and accessible in eCAS
  o Pipeline output will be returned to the investigator

Informatics Pilot with San Antonio – Ian Thompson, Robin Leach and Carolina Livi

Target Key Informatics Needs:

1. Study Management System – A system that will allow for the capture and management of study data

2. Specimen Management System – A system that will track and manage specimens related to a protocol, not cataloging of specimens in storage facility.

3. Lab Catalog and Archive System – Provide an infrastructure to capture, search and analyze biomarker study results for local laboratories

Coming Soon....

Software

CDE Registry – Re-use part of the OODT infrastructure for EDRN. This will allow EDRN the following:

- Insure consistent use of the EDRN CDEs
- Insure the underlying definitions are in sync
- Insure interoperability with other programs

LabCAS

- Upload and share data through EDRN Portal
- Capture metadata

Other

Migration of services from DMCC to JPL

- LDAP Security

- ERNE Product, Profile and Query Servers

- ERNE IRB Monitoring

Publications, Meetings & Outreach

7th EDRN Scientific Workshop

Present Posters

Bethesda, MD

September 13-16, 2011